

WHAT IS CLAIMED IS:

1. A multi-screen driving device for use in an electrical appliance, comprising:
a control unit for outputting a plurality of display data comprising first display data and second display data, and asserting a set of control signals;

an application specific integrated circuit in communication with said control unit for distinguishing said plurality of display data as said first or said second display data in response to said set of control signals; and

a first and a second screens both in communication with said application specific integrated circuit for displaying said first and said second display data, respectively.

2. The multi-screen driving device according to claim 1 wherein said application specific integrated circuit outputs said first and said second display data to said first and said second screen, respectively, according to a time-division multiplexing procedure.

3. The multi-screen driving device according to claim 1 further comprising a latch unit electrically connected between said control unit and said application specific integrated circuit for latching and then outputting said first and said second display data and said set of control signals to said application specific integrated circuit.

4. The multi-screen driving device according to claim 1 wherein said first display data and said second display data are different data.

5. The multi-screen driving device according to claim 1 wherein a portion of said first display data and a portion of said second display data are identical data, and simultaneously outputted to both of said first and said second screens.

6. The multi-screen driving device according to claim 1 wherein said control unit is a central processing unit (CPU).

7. The multi-screen driving device according to claim 1 wherein said electrical appliance is a cellular phone.

8. A dual-screen driving device for use in a cellular phone, comprising:

a control unit for outputting a plurality of display data comprising first display data and second display data, and asserting a set of control signals;

an application specific integrated circuit in communication with said control unit for distinguishing said plurality of display data as said first or said second display data in response to said set of control signals according to a time-division multiplexing procedure;

a latch unit electrically connected between said control unit and said application specific integrated circuit for latching and then outputting said first and said second display data and said set of control signals to said application specific integrated circuit; and

a first and a second screens both in communication with said application specific integrated circuit for displaying said first and said second display data, respectively.

9. A multi-screen driving method for use in an electrical appliance having a first and a second screens, said method comprising steps of:

receiving a set of control signals and a plurality of display data comprising first display data and second display data to be revealed by said first and said second screens, respectively; and

performing a time-division multiplexing procedure to output said first and said second data to said first and said second screens, respectively, in response to said set of control signals.

10. The method according to claim 9 wherein said first and said second display data are outputted by a central processing unit (CPU) in a frame, and said frame

has a resolution greater than that of each of said first and said second screens.

11. The method according to claim 9 wherein said first display data and said second display data are different data.

12. The method according to claim 9 wherein a portion of said first display data and a portion of said second display data are identical data, and simultaneously outputted to both of said first and said second screens.

13. The method according to claim 9 wherein said time-division multiplexing procedure is performed in a single application specific integrated circuit.

14. The method according to claim 9 wherein each of said plurality of display data is verified as said first display data or said second display data in response to one of said control signals.

15. The method according to claim 9 wherein said set of control signals includes a clock signal to be referred to output said plurality of display data.

16. The method according to claim 9 wherein said electrical appliance is a cellular phone.